AT6400 AllTouch IR Universal Remote Control

User Guide

Welcome to the Ultimate Control Experience

Your new AT6400 AllTouch® Infrared (IR) Universal Remote Control (remote) is a true universal remote, functioning as four remotes in one. As one example, you can use this remote to operate your set-top, your TV, and two other devices, such as a DVD player and VCR.

Important Information About Your Remote

Your remote is initially programmed to only operate your set-top. Therefore, you must program the remote to operate your TV, VCR, or other devices. See **Program the Remote to Control My Devices** to learn how to enter device codes and program your remote.

Note: You must use the IR remote within line of sight of the set-top to operate the set-top correctly.

How Does A Universal Remote Control Work?

You tell the remote which type of device you want to operate using the four keys arched across the top of the remote. These keys, known as **mode keys**, are labeled **STB**, **TV**, **DVD**, and **AUX**. Each mode key is associated with a specific device. As an example, after programming the remote, if you want the remote to operate your TV, you simply press the TV key. Other keys you press on the remote, thereafter, should operate your TV. Want to switch the remote to operate a different device? Just press the mode key for the next device you want to operate. In this guide, you will learn which types of devices you can control and how to program the remote to control your specific devices.

Where Do I Start?

Before you begin using your remote, complete the following initial setup tasks.

Install the Batteries

The remote requires two AA batteries (alkaline recommended). A diagram in the battery compartment of the remote indicates proper placement of the batteries. When batteries are properly installed, the light on the remote blinks each time a key is pressed.

Visit the Quick Reference Section

Use the Quick Reference section of this guide to familiarize yourself with the remote and the functions of its various keys. Knowing the function and location of the keys on the remote will assist you when you are programming the remote.

Program the Remote

To learn how to program your remote, refer to the sections **What Devices Can I Control**, **What Devices Do I Want to Control**, and **Program the Remote to Control My Devices** for further instructions.

Find a Place to Store Your Remote

Keeping up with one remote is much easier than keeping up with four or five remotes. However, it is still a good idea to find a storage location for your remote. The AT6400 is not a toy. It should be kept out of the reach of children under the age of 6 years.

Program the Remote to Control My Devices

Your remote is initially programmed to only operate your set-top. You will need to set up the remote to operate your other devices using its TV, DVD, and AUX modes. The TV key may be programmed to operate a standard or high-definition television (HDTV). The DVD key may be programmed to operate a DVD player. The AUX key may be programmed to operate a VCR, a receiver, an amplifier, or a Home Theater in a Box (HTIB) system. If the remote provides only limited functionality for a device, you can look for a code that provides more functionality.

Refer to the code tables at the end of this guide to locate additional programming codes.

Note: You have the option to assign some remote keys to operate one device type only. For example, you may want to assign volume control to the TV only. If this is the case, you can reprogram power, volume, and channel control using procedures found later in this guide.

Assigning a Device Code to a Mode Key

1. Refer to the code tables at the end of this guide to locate the information for the device you want to program.

   Note: If your device is not listed, you may be able to program the remote using the Auto-Search function. Go to **What If None of the Codes Work** for instructions.
2. Turn on the device that you want to assign to a mode key.
3. Press and hold the appropriate mode key (**TV**, **DVD**, or **AUX**) on the remote, and then press and hold the **OK** key.
4. Release *both* keys and the mode keys blink twice.
5. Enter the first 4-digit setup code for the device using the numeric keys (0-9) on the remote. The mode key blinks three times to indicate that the code entry was accepted.

   Notes:
   - When an invalid code is entered, the selected mode key displays a long flash to indicate that you have not entered the code correctly.
   - Should the remote time-out before you complete the code setup, you must start over. This is indicated by one long flash of the red LED.
6. Point the remote at the device, and press **POWER** to test the device.
7. Did the device power off?
   - If **yes**, write this code number in the table found in this guide. You may need it again if the device code is accidentally erased.
   - If **no**, repeat this procedure from step 3 using a different setup code.

   Note: If none of the codes listed for your brand of device operate the device correctly, go to **What If None of the Codes Work** for instructions.
8. Repeat this procedure for each mode key you want to program.

What If None of the Codes Work?

If none of the codes listed for your brand of device operate the device correctly, or if your device is not listed in the codes table, you can use the Auto-Search function to search through the code library for a valid code. This section provides procedures for using the Auto-Search function to search the code library for TV, DVD and AUX mode codes.

Note: Read the procedures in this section thoroughly before beginning. You need to be prepared to observe the behavior of the remote.

Auto-Search Features

Consider the following items when using Auto-Search:

- The Auto-Search function begins searching from the first code.
- If a valid code is not found, the green backlight blinks twice and the remote returns to normal operation.
- If any other key is pressed except PLAY, ENTER, POWER, EXIT, REW, FF, or numeric keys 1 through 4 (when programming the AUX mode key), the mode key displays a long red flash (error message) and the remote returns to normal operation.
- Should the remote time-out before you complete the Auto-Search function you must start over. This is indicated by one long flash of the red LED.
- If the device is not listed and the Auto-Search function is unable to find a usable code, you may need to use the original remote provided with the device.

Auto-Searching the Code Library for TV or DVD Mode Codes (Program Code 922)

Note: This procedure only applies to TVs and DVDs.

1. Turn on the device you that you want to assign to the TV or DVD key.
2. Point the remote at the device.
3. Press and *while holding* a selected mode key (**TV** or **DVD**), press the **OK** key. For example, to search for a TV code, press and hold **TV** and **OK** at the same time.
4. Release *both* keys and all the mode keys blink twice.
5. Enter the programming code **9 2 2** by pressing the numeric keys on the remote. The mode key you selected in step 3 blinks twice to indicate a successful entry.
6. Point the remote toward the device, and press **PLAY**.
7. Your device powers off when it finds the correct code. Then, choose one of the following options:
   - **Save code and exit** – Press the **ENTER** key on the remote to program the code in the remote and the mode key flashes three times indicating successful entry.
   - **Step forward** – Press the fast-forward (**FF**) key on the remote to step ahead through the codes one at a time. Then, return to step 6.
   - **Step backward** – Press the rewind (**REW**) key on the remote to step back through the codes one at a time. Then, return to step 6.
   - **Exit without saving the code** – Press the **EXIT** key on the remote. The selected mode key flashes three times and returns to normal operation.
   - **Send the current code** – Press the **POWER** key on the remote to send the current code. If the device turns back on, press the **ENTER** key. If the device does not turn on, return to step 6.
   - **Continue with auto-search function** – Press the **PLAY** key on the remote to continue with the auto-search function. Then, return to step 6.

Auto-Searching the Code Library for AUX Mode Codes (Program Code 922)

1. Turn on the device that you want to assign to the AUX key.
2. Point the remote at the device.
3. Press and *while holding* the **AUX** key, press the **OK** key.
4. Release *both* the **AUX** key and the **OK** key and all the mode keys blink twice.
5. Enter the programming code **9 2 2** by pressing the numeric keys on the remote. The AUX key blinks twice indicating a successful entry.
6. Press the **PLAY** key, choose one of the following device categories and then, using the number keys on the remote, press its assigned number (1 – 4) based on the following list:

   1 = VCRs 2 = Receiver/Tuners
   3 = Amplifiers 4 = HTIB

   Note: The device categories are number-coded to provide a more direct programming method.
7. Point the remote toward the device, and press **PLAY**.
8. Your device powers off when it finds the correct code. Then, choose one of the following options:
   - **Save code and exit** – Press the **ENTER** key on the remote to program the code in the remote and the mode key flashes three times indicating successful entry.
   - **Step forward** – Press the fast-forward (**FF**) key on the remote to step ahead through the codes one at a time. Then, return to step 7.
   - **Step backward** – Press the rewind (**REW**) key on the remote to step back through the codes one at a time. Then, return to step 7.
   - **Exit without saving the code** – Press the **EXIT** key on the remote. The selected mode key flashes three times and returns to normal operation.
   - **Send the current code** – Press the **POWER** key on the remote to send the current code. If the device turns back on, press the **ENTER** key. If the device does not turn on, return to step 7.
   - **Continue with auto-search function** – Press the **PLAY** key on the remote to continue with the auto-search function. Then, return to step 7.

Reassign Mode Keys

You can reassign a mode key to operate a different device. For example, you can reassign the AUX key to operate a DVD player or a TV. If you reassign a key, be sure you update the table found in this guide.

Reassigning Mode Keys (Program Code 944)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* the keys and all mode keys flash twice.
4. Enter the programming code **9 4 4** by pressing the numeric keys on the remote. The STB mode key blinks twice indicating a successful entry.
5. Press and release the mode key associated with the type of device you want to control, and then press and release the mode key that you want to change. The newly assigned mode key blinks one time indicating a successful entry.

Some common examples:
- To program the AUX key to operate your DVD player, press **DVD** and then **AUX**.
- To program the DVD key to operate your TV, press **TV** and then **DVD**.

Change Volume Control

By default, once the TV mode key is programmed with a valid code, the volume and mute buttons control your TV. These keys adjust the volume of your TV higher, lower, or temporarily switch the volume off (Mute), regardless of whether the remote is in STB, TV, DVD, or AUX mode.

If you prefer, you can choose to have the volume and mute buttons always control a different device rather than your TV, such as a home theater receiver. (See **Controlling Volume for One Device** below.) Note that you must first program one of the mode keys, such as AUX, with a valid code for that device.

Alternatively, you can choose to have the volume and mute buttons control different devices when the remote is in different modes. For example, you might want to control the volume on your TV when in TV mode, but the volume on your home theater receiver when in AUX mode. (See **Controlling Volume for Different Devices** below.) Note that not all devices have volume controls, so if you choose this option, the volume and mute buttons may do nothing in some modes, such as STB and DVD.

Controlling Volume for One Device (Program Code 955)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* keys and all mode keys blink twice.
4. Enter the programming code **9 5 5** by pressing the number keys on the remote. The STB mode key blinks twice indicating a successful entry.
5. Press and release the mode key for the device you want the volume keys to control. For example, if you want to control volume through your TV, press and release **TV**. The selected mode key blinks three times to indicate a successful entry.

The volume keys now control only one device whether you are in STB, TV, DVD, or AUX mode.

Controlling Volume for Different Devices (Program Code 955)

1. Complete steps 1 through 4 of the **Controlling Volume for One Device** procedure.
2. Press and release the **Enter** key. The STB mode key blinks three times to indicate a successful entry.

After you press the **Enter** key, the volume keys control the device assigned to that mode. For example, in TV mode, the volume keys control volume for the TV only.

Notes:
- If any other key is pressed except the Mode keys and the **ENTER** key, the remote does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete programming volume control, the remote does not accept any changes. You must start over from step 1 of this procedure.

Change Channel Control

The remote is set by default to control channel selection on the set-top. You can also program channel control to control any of the TV, DVD, or AUX mode devices provided the device allows for channel control assignment. Or, you can set the channel selection control programming to control channels (or page up or down) for all of the devices programmed in the four mode keys. Otherwise, you can only control channels (or page up or down) on a specific device, for example, the TV or DVD.

Note: The channel control keys include CH/Page, Jump, and the numeric keys 0 through 9.

Controlling Channels for One Device (Program Code 966)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* keys and all mode keys blink twice.
4. Enter the programming code **9 6 6** by pressing the numeric keys on the remote. The STB mode key blinks twice to indicate a successful entry.
5. Press and release the mode key for the device you want the channel key to control. For example, if you want to control channels on your TV, press and release **TV**. The selected mode key blinks three times to indicate a successful entry.

The channel key now always controls the device associated with the mode you selected in this procedure, whether in STB, TV, DVD, or AUX mode.

Controlling Channels for Different Devices (Program Code 966)

1. Complete steps 1 through 4 of the **Controlling Channels for One Device** procedure.
2. Press and release the **Enter** key. The STB mode key blinks three times to indicate a successful entry.

After you press the **Enter** key, the channel key now controls the device associated with the mode key you select. For example, in TV mode, the channel key controls the TV, but in STB mode, the channel key controls the set-top.

Notes:
- If any other key is pressed except the Mode keys and the **ENTER** key, the remote does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete programming channel selection control, the remote does not accept any changes. You must start over from step 1 of this procedure.

Change Power Control

The POWER key on the remote is set by default to control the power switch on one device at a time, in either mode (STB, TV, DVD, or AUX). When in STB mode, the remote switches the set-top from OFF (standby mode) to ON, or from ON to OFF (standby mode). However, you can alternatively program the POWER key to control the power switch on up to four devices at the same time, instead of controlling one device at a time. It is highly recommended that you set up the POWER key to turn on and off your set-top and your TV at the same time. Turning off the set-top saves electricity and extends the life of the box. When turned off, the set-top can *still* record scheduled programs on its DVR and perform any other necessary functions.

Controlling Power for Multiple Devices at Once (Program Code 977)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* keys and all mode keys blink twice.
4. Enter the programming code **9 7 7** by pressing the numeric keys on the remote. The STB mode key blinks twice to indicate a successful entry.
5. For the first device, press the **STB** key. The STB mode key blinks twice.
6. For the second device, press the applicable mode key (TV, DVD, or AUX). The selected mode key blinks twice.
7. Repeat step 6 for up to two more devices (total of four devices).
8. Press the **ENTER** key to complete the power switch control programming. The last selected mode key blinks 3 times to indicate a successful entry.

Example: In an example scenario where you press only TV in steps 6 and 7, the POWER key controls *both* the set-top and the TV at the same time, regardless of which mode the remote is in (STB, TV, DVD, or AUX).

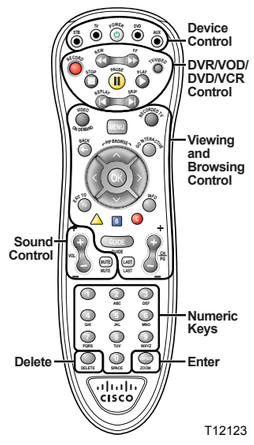
Controlling Power for One Device at a Time (Program Code 977)

1. Complete steps 1 through 4 of the **Controlling Power for Multiple Devices at Once** procedure.
2. Press the **ENTER** key to complete the power switch control programming. The last selected mode key blinks 3 times to indicate a successful entry.

After you select a mode, the POWER key controls the device assigned to that mode. For example, in TV mode, the remote controls power for the TV only.

Notes:
- If any other key is pressed except the Mode keys and the **ENTER** key, the remote does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete programming power switch control, the remote does not accept any changes. You must start over from step 1 of this procedure.

Quick Reference



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Device Control

- Turns devices on or off
- Enables set-top mode functions
- Enables TV mode functions
- Enables DVD mode functions
- Enables AUX mode functions

DVR, VOD, DVD, VCR Control

Notes:
- In STB mode, these keys control DVR and VOD functions.
- In DVD and AUX modes, these keys may control your DVD or VCR depending on how you have programmed the remote.

- Records the selected program
- Stops DVD, VCR, VOD, or DVR content
- Pauses DVD, VCR, VOD, or DVR content
- Plays DVD, VCR, VOD, or DVR content
- Scrolls through available TV or video input sources
- Rewinds or fast forwards through DVR or VOD content
- Skips backward or forward through DVR or VOD content

Viewing and Browsing Control

- Accesses the On Demand menu
- Returns to previous screen
- Accesses the Main Menu
- Accesses the DVR list of recordings
- Enables Interactive mode
- Moves through selections
- Selects and deselects screen items
- Returns from menu screens and to viewing TV or video
- Selects options in menus and the program guide
- Displays text information about the selected program
- Displays or closes the IPG
- Returns to last channel viewed
- Selects the next channel, up or down, when watching TV. Moves up or down one page in the IPG and in some menu screens

Sound Control

Note: These keys are assigned to the TV when the TV mode key is programmed with a valid code.

- Adjusts volume
- Mutes sound

Numeric Keys

- Enters channel numbers, text, and remote codes. Also use to enter your parental control PIN
- Clears text and numbers in text fields
- Enters and saves (stores) an entry. Sizes the picture for some high-definition television (HDTV) models

What Devices Can I Control?

The four **mode keys** arched across the top of the remote tell the remote which device you want to operate.

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Each mode key is associated with different types of devices. You can use each mode key to control *one* of its associated devices:

Mode Key	Associated Devices
STB	IP gateway set-top
TV*	TVs (including HDTVs)
DVD*	DVD players
AUX*	VCRs, receivers, tuners, and Home Theater in a Box (HTIB)

* These keys can be reassigned to control different devices. Go to the **Reassign Mode Keys** section of this guide for instructions.

LED Indicators

There are red LEDs underneath each of the four mode keys (STB, TV, DVD, and AUX) that flash each time a key is pressed to show which device the key is currently controlling.

There are also green LEDs that illuminate several keys whenever the remote is in use. They stay illuminated for a short time after a key is pressed.

During programming, if the remote times out before you complete the code setup, you will need to start over. This is indicated by one long flash of the red LED.

What Devices Do I Want to Control?

To help you keep track of the devices you want to control, list the type of devices you have (including brand) in the following table. Then, use the code tables at the end of this guide to locate the codes for your device. For example, look under **TV Group** if you need to program the remote to operate your TV. If you have two devices that use the same key, you must reassign the TV, DVD, or the AUX key. The STB key cannot be reassigned. Go to **Reassign Mode Keys**. Otherwise, go to **Program the Remote to Control My Devices** for additional instructions.

Mode Key	Device Type	Brand	Code
Example: DVD	DVD	Sony	2066
TV			
DVD			
AUX			

Put It Back the Way I Got It

You can return all advanced functions back to their original settings by resetting the remote to factory default settings. Resetting the remote to factory default settings removes all of the programming you have entered for the remote. You must reprogram the remote to restore your original settings.

Resetting the Remote to Factory Default Settings (Program Code 900)

1. Press and hold the **STB** mode key on the remote.
2. Without releasing the **STB** key, press and hold the **OK** key.
3. Release *both* keys and all mode keys blink twice.
4. Enter the programming code **9 0 0** by pressing the numeric keys on the remote. The STB mode key blinks four times to indicate you have successfully reset the remote to factory default settings.

Notes:

- If any other key is pressed except the numeric keys, the remote does not accept any changes or updates. The STB mode key displays a long red flash and the remote returns to normal operation.
- If the remote times out before you complete the factory default reset procedure, the remote does not accept any changes. You must start over from step 1 of this procedure.

Troubleshooting

If there is no response when you press the keys on the remote, please check the following items before calling for service.

Check the Batteries

- Are the batteries inserted correctly?
- Check the battery condition for leakage.
- Replace with new alkaline batteries.

Check the Device

- Is the device's power cord connected to the power outlet?
- Is the device switched on?

Check the IR Database Codes List

Is the device brand name for the device listed in the code list?

- If **yes** and there is more than one code listed, try using a different code to provide more functionality.
- If **no**, try the following:
  - Use the Auto-Search function to find a usable code.
  - If the Auto-Search function is unable to find a usable code, you may need to use the original remote provided with the device.

Code Tables

If the remote does not recognize your device, you can find codes for your device by brand name. Code tables in this section are organized by the devices assigned to each mode (TV, DVD, and AUX).

TV Mode Group

TV

Abex	1098
Admiral	1009, 1022, 1023
Advent	1285, 1376, 1476, 1285, 1594
Adventura	1100
Aiko	1015
Aiwa	1034, 1098
Akai	1016, 1061, 1156, 1432, 1524, 1612
Alaron	1022
Alienware	1408
America Action	1036
AOC	1018, 1361, 1562, 1600, 1635
Apex Digital	1058, 1111, 1163, 1520
Audiovox	1036, 1135, 1455
Bang & Olufsen	1453
Belcor	1018
Bell & Howell	1001, 1043
BenQ	1041, 1136, 1545, 1557
Bradford	1036
Broksonic	1023, 1028, 1114, 1382
Brokwood	1018
Candle	1007, 1061, 1100, 1363
Celebrity	1002
Citizen	1011, 1015, 1061, 1073, 1100,1114, 1363
Clarion	1036
Concerto	1363
Contec	1036
Craig	1036
Crosley	1002, 1047
Crown	1011, 1036
Curtis	1320, 1629, 1642
Curtis Mathes	1001, 1009, 1013, 1043, 1073, 1094, 1385
CXC	1036
Cytron	1232, 1456
Daewoo	1011, 1013, 1015, 1018, 1043, 1106, 1135 ,1508, 1524, 1638
Daytron	1018
DiamondVision	1499, 1461
DirecTV	1374
Dumont	1018, 1020
Durabrand	1023, 1024, 1036, 1333, 1481

TV, continued

Dynex	1511, 1589, 1598, 1609
Electroband	1002
Electrohome	1023
Emerson	1011, 1020, 1022, 1023, 1028, 1031, 1033, 1036, 1044, 1045, 1080, 1097, 1101, 1102, 1107, 1382, 1465
Envision	1061, 1361, 1529, 1562
Fisher	1043
Fujitsu	1007, 1022, 1029
Funai	1002, 1022, 1-24, 1036, 1090, 1554
Futuretec	1036
Gateway	1038, 1042, 1408
GE	1000, 1003, 1004, 1008, 1021, 1048, 1049, 1063, 1068, 1094, 1144, 1164, 1224, 1367, 1380, 1381, 1385, 1386
Gibralter	1018, 1020, 1061
Goldstar	1004, 1005, 1011, 1018, 1050, 1090, 1091, 1097, 1098, 1400, 1401
Grunpy	1022, 1036
Hallmark	1333
Harley Davidson	1022, 1090
Harvard	1036
Hisense	1112, 1602, 1630, 1637
Hitachi	1004, 1011, 1012, 1051, 1052, 1084, 1085, 1086, 1087, 1102, 1225, 1384
HP	1408, 1419, 1517
I-Inc	1578
ILo	1040, 1436, 1457
Insignia	1024, 1232, 1437, 1501, 1507, 1519, 1593, 1595, 1596, 1598, 1601, 1636
Infinity	1047
Janeil	1100
JBL	1047
JCB	1002
Jensen	1285, 1376, 1521, 1594
JVC	1011, 1012, 1026, 1049, 1052, 1054, 1055, 1080, 1092, 1117, 1131, 1235, 1288, 1299
KEC	1036
Kenwood	1018, 1061
Kloss	1100
KTV	1011, 1036, 1061, 1101, 1490
LG	1020, 1146, 1255, 1333, 1584, 1631
Linksys	1408
Lloyd's	1090
Logik	1001
Luxman	1363
LXI	1043, 1047, 1058, 1068, 1094, 1333
Magnavox	1004, 1007, 1018, 1053, 1056, 1057, 1059, 1060, 1083, 1110, 1147, 1228, 1260, 1300, 1301, 1302, 1321, 1326, 1339, 1365, 1366, 1371, 1384, 1387
Magnin	1380
Majestic	1001
Marantz	1017, 1047, 1061,1113, 1239, 1525, 1641
Media Center	1408
Megatron	1333, 1051
Memorex	1001, 1022, 1023, 1121, 1333
MGA	1018, 1032, 1061, 1333, 1380
Midland	1011, 1020, 1049, 1068, 1094, 1098
Minutz	1021
Mitsubishi	1005, 1009, 1018, 1032, 1153, 1333, 1535, 1540
Monivision	1257, 1477
Motorola	1009
MTC	1018, 1061, 1073, 1363
Multitech	1036, 1490
NAD	1058, 1333, 1363, 1550
NEC	1018, 1061, 1193, 1363, 1377, 1423, 1523, 1525, 1543
Net TV	1038
Olevia	1004, 1406, 1421, 1463, 1488
Nikko	1015, 1061, 1333
Norcent	1112, 1183, 1531, 1562, 1568, 1569
NTC	1015
Onwa	1036
Optimus	1043, 1096, 1145, 1165, 1169, 1305
Optonica	1009, 1064
Orion	1022, 1023, 1028, 1121, 1122, 1382, 1511
Otic	1643
Panasonic	1003, 1010, 1049, 1053, 1096, 1123, 1152, 1231, 1289, 1292, 1295, 1303, 1304, 1305, 1306, 1385
PARK	1603
Penney	1011, 1012, 1018, 1021, 1058, 1063, 1073, 1094, 1098, 1333, 1380, 1385, 1558
Philco	1003, 1004, 1005, 1007, 1011, 1018, 1053, 1056, 1057, 1059
Philips	1003, 1004, 1007, 1011, 1017, 1018, 1053, 1056, 1057, 1059, 1060, 1063, 1110, 1126, 1129, 1148, 1155, 1238, 1263, 1264, 1265, 1290, 1291, 1307, 1308, 1309, 1337, 1389
Pilot	1011, 1018, 1061
Pioneer	1035, 1102, 1149, 1193, 1469
Polaroid	1040, 1111, 1232, 1262, 1371, 1391, 1392, 1393, 1407, 1440, 1446, 1460, 1565, 1583, 1596, 1604
Portland	1011, 1013, 1015, 1018, 1135
Prima	1285, 1376, 1476, 1521, 1594
Princeton	1257
Prism	1049
Proscan	1000, 1061, 1068, 1094, 1396, 1558, 1605, 1614
Proton	1333
Protron	1430, 1494
Proview	1407, 1565
Pulsar	1018, 1020
Quasar	1049, 1064, 1096, 1169, 1305, 1385
Radio Shack	1011, 1018, 1043, 1061, 1064, 1068, 1090, 1094, 1098 1333, 1363
RCA	1000, 1003, 1004, 1005, 1008, 1018, 1049, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1082, 1102, 1104, 1106, 1108, 1115, 1151, 1162, 1167, 1168, 1268, 1269, 1270, 1271, 1310, 1365, 1359, 1361, 1370, 1373, 1379, 1380, 1381, 1385, 1386
Realistic	1011, 1018, 1036, 1043, 1061, 1064, 1098, 1333, 1363
RevolutionHD	1570
Ricavision	1408
Runco	1020, 1061, 1193, 1523, 1571
Sampo	1011, 1038, 1061, 1098
Samsung	1004, 1005, 1011, 1014, 1018, 1019, 1072, 1073, 1074, 1097, 1098, 1156, 1161, 1297, 1323, 1360, 1363, 1364
Samsux	1011
Sansui	1023, 1024, 1064, 1090, 1114, 1121, 1382, 1593
Sanyo	1043, 1047, 1062, 1095, 1380, 1527
Soeptre	1467, 1542, 1551, 1561
Somitsu	1018
Scotch	1333
Scott	1018, 1022, 1028, 1036, 1333, 1428
Sears	1000, 1004, 1012, 1018, 1044, 1045, 1047, 1055, 1058, 1068, 1075, 1076, 1103, 1105, 1384
Sharp	1004, 1009, 1011, 1025, 1064, 1077, 1078, 1097, 1099, 1153, 1157, 1274, 1298, 1311, 1312, 1362, 1375, 1378

TV, continued

Sheng Chia	1009
Sherwood	1563
Shogun	1018
Signature	1001
Simpson	1007
Skyworth	1014
Sole	1570
Sony	1002, 1109, 1137, 1201, 1202, 1249, 1272, 1275, 1276, 1277, 1278, 1317, 1356, 1374, 1384, 1388
Soundesign	1007, 1022, 1036, 1333
Sova	1494
Soyo	1566, 1578, 1591
Spectroniq	1407, 1565
Squareview	1024
SSS	1018, 1036
Stack9	1408
Starlite	1036
Studio Experience	1477
SunBrite	1365
Superscan	1009, 1027, 1181
Supre-Macy	1100
Supreme	1002
SVA	1112, 1446, 1491, 1595
Sylvania	1004, 1007, 1018, 1027, 1153, 1056, 1057, 1059, 1060, 1124, 1150, 1145, 1279, 1296, 1387, 1464
Symphonic	1024, 1031, 1036, 1105, 1280, 1384
Syntax	1004, 1406, 1421, 1463, 1488
Systemax	1408
Tagar Systems	1408
Tandy	1009
Tatung	1040, 1042
TCL	1326
Teac	1326
Technics	1049, 1363
Technika	1643
Technol ACE	1022
Techview	1478
Techwood	1004, 1049
Teknika	1001, 1007, 1011, 1015, 1018, 1022, 1032, 1036, 1047, 1073, 1363
Telefunken	1156, 1363
Thomas	1090
TMK	1333, 1363
TNCi	1060
Toshiba	1006, 1040, 1058, 1073, 1175, 1079, 1093, 1116, 1154, 1158, 1159, 1252, 1267, 1281, 1282, 1283, 1284, 1286, 1293, 1294, 1313, 1315, 1319, 1338, 1364, 1377
Totevision	1011
Touch	1408
TruTech	1425, 1599
TVS	1023
Ultra	1430
Universal	1063
US Logic	1040
Vector Research	1061
Venturer	1592
VEOS	1487
Victor	1092
Vidikron	1047, 1193, 1571
Vidtech	1018, 1333
Viewsonic	1038, 1180, 1181, 1184, 1185, 1187, 1188, 1190, 1206, 1361, 1408, 1441, 1600
Viking	1100
Viore	1435, 1590, 1603, 1629
Vizio	1042, 1181, 1184, 1433
Voodoo	1408
Wards	1001, 1018, 1021, 1022, 1047, 1059, 1061, 1063, 1064, 1363, 1550
Waycon	1058
Westinghouse	1135, 1178, 1184, 1515, 1544, 1555, 1567, 1616
Wharfedale	1643
Wyse	1562
Yamaha	1018, 1061, 1206, 1533, 1536
Zenith	1001, 1002, 1013, 1015, 1020, 1023, 1054, 1061, 1090, 1094, 1118, 1121, 1255, 1207, 1333, 1382
ZT Group	1408

HDTV

Epson	1422
Marantz	1214
Mitsubishi	1032
Olevia	1406
Panasonic	1010, 1096, 1169
Pioneer	1035
RCA	1000
Samsung	1016, 1056
Sharp	1247
Toshiba	1223

DVD Mode Group

DVD

Aiwa	2026, 2131
Akai	2378
Amphion MediaWorks	2342
AMW	2342
Apex	2001, 2056, 2057, 2061, 2095, 2098, 2229, 2250, 2316, 2322, 2330
Apex Digital	2261, 2262, 2263, 2266, 2269, 2291
Arrgo	2325
Astar	2354
Audiovox	2132, 2373, 2388
Axion	2379
Bang & Olufsen	2324, 2370
Blaupunkt	2136, 2322
Bose	2122, 2130, 2215
Boss	2336
Broksonic	2053, 2072, 2284
Cambridge SoundWorks	2395
Cinevision	2152, 2195
Clarion	2100
Classic	2101, 2391
Coby	2380, 2387
Curtis	2387

DVD, continued

CyberHome	2083, 2325
Cytron	2374
Daewoo	2058, 2062, 2137, 2138, 2190
Denon	2110, 2133, 2040, 2216, 2247, 2253, 2317
Desay	2344
DiamondVision	2382
Disney	2321
Durabrand	2326
Eclipse	2335
Emerson	2002, 2059, 2073, 2321, 2327, 2392
ESA	2327, 2394
Fisher	2112, 2134, 2255
Funai	2002, 2321, 2327
Gateway	2346
GE	2079, 2118, 2041, 2261, 2272, 2319, 2322
Go Video	2046, 2127, 2129, 2124, 2230, 2239, 2249, 2346
GPX	2114, 2390
Greenhill	2322
Grundig	2320
Harman Kardon	2125
Hitachi	2000, 2027, 2126, 2173, 2240
Ilo	2375
Initial	2322, 2381
Insignia	2327, 2369, 2394
Irradio	2149, 2150
JVC	2017, 2028, 2047, 2090, 2096, 2097, 2115, 2166, 2204, 2206, 2217, 2218, 2232, 2242, 2265, 2277, 2283, 2359, 2360, 2361, 2362, 2364, 2365, 2366, 2367
Kenwood	2142, 2148
KLH	2322
Konka	2029, 2030, 2376
Koss	2060, 2200
Lasonic	2081
Lenoxx	2326
LG	2297, 2303, 2339, 2352, 2363, 2368, 2371
Liteon	2346, 2353
Magnavox	2002, 2018, 2033, 2089, 2237, 2241, 2245, 2259, 2270, 2293, 2318, 2320, 2321, 2327
Marantz	2143, 2320
Memorex	2003
Mintek	2004, 2322, 2381
Mitsubishi	2019, 2123, 2145, 2147
NAD	2059, 2139
Nakamichi	2116
Nesa	2322
Nexxtech	2140, 2256, 2328
Norcent	2005, 2117
Onkyo	2006, 2219, 2220, 2318
Oppo	2323
Oritron	2009
Panasonic	2031, 2066, 2075, 2076, 2104, 2105, 2106, 2111, 2167, 2179, 2188, 2198, 2207, 2211, 2212, 2221, 2228, 2248, 2151, 2153, 2154, 2155, 2258, 2268, 2300, 2318, 2384, 2385, 2386, 2398, 2399
Philips	2018, 2032, 2033, 2045, 2051, 2091, 2109, 2156, 2157, 2158, 2159, 2169, 2208, 2209, 2222, 2243, 2259, 2260, 2264, 2282, 2285, 2302, 2304, 2318, 2320, 2321, 2404
Pioneer	2008, 2021, 2160, 2164, 2191, 2223, 2224, 2267, 2310, 2337, 2400
Polaroid	2007, 2377, 2409
Polk Audio	2320
Presidian	2321
Proscan	2010, 2118, 2144, 2205, 2319
Qwestar	2009
RCA	2010, 2048, 2055, 2063, 2077, 2099, 2107, 2118, 2161, 2165, 2172, 2177, 2181, 2261, 2275, 2281, 2287, 2289, 2319, 2322, 2331
Sampo	2119
Samsung	2012, 2049, 2074, 2085, 2102, 2175, 2186, 2196, 2214, 2233, 2246, 2274, 2279, 2286, 2290, 2294, 2295, 2299, 2311, 2314, 2333, 2340, 2347, 2351
Sansui	2071
Sanyo	2034, 2050, 2120, 2393
Sensory Science	2345
Sharp	2013, 2015, 2044, 2082, 2086, 2170, 2174, 2292, 2321, 2396
Sherwood	2121, 2397
Sony	2014, 2020, 2022, 2065, 2067, 2068, 2069, 2070, 2087, 2103, 2108, 2113, 2162, 2171, 2176, 2178, 2182, 2187, 2189, 2192, 2193, 2201, 2202, 2203, 2226, 2238, 2244, 2251, 2257, 2273, 2278, 2280, 2288, 2296, 2298, 2305, 2306, 2307, 2309, 2313, 2315, 2329, 2332, 2338, 2355, 2356, 2357, 2405, 2406, 2407
Sungale	2343
Sylvania	2002, 2064, 2078, 2092, 2194, 2213, 2321, 2327, 2408
Symphonic	2321
Techwood	2141
TiVo	3074, 3244, 3245, 3246, 3249, 3250
Toshiba	2023, 2025, 2037, 2038, 2040, 2041, 2054, 2080, 2084, 2088, 2093, 2094, 2168, 2180, 2183, 2184, 2185, 2197, 2210, 2227, 2231, 2235, 2259, 2271, 2276, 2284, 2301, 2318, 2334, 2341
Toshiba	2135, 2312, 2348, 2349, 2350, 2358, 2401, 2402, 2403
Trutech	2345
Urban Concepts	2318
Venturer	2011
Westinghouse	2372
Xbox	2319
Yamaha	2106, 2146, 2163, 2320, 2389
Zenith	2039, 2052, 2128, 2199, 2234, 2236, 2252, 2308, 2318

AUX Mode Group

Amplifier

Adcom	6055
Aiwa	6003, 6020
Carver	6002
Citizen	6026
Curtis Mathes	6046
Denon	6014, 6039, 6057
Fisher	6002
GE	6028, 6045
Goldstar	6016, 6021
Harman Kardon	6013, 6047
Hitachi	6034
JBL	6050
JVC	6018, 6024, 6041
Kenwood	6015, 6022
Left Coast	6047
Magnavox	6035
Marantz	6000, 6047, 6058
Nakamichi	6012
NEC	6033, 6048
Onkyo	6005, 6006, 6017, 6054, 6056
Optimus	6008, 6046

Amplifier, continued

Panasonic	6001, 6040
Parasound	6059
Philips	6047
Pioneer	6004, 6009, 6010, 6023, 6036, 6046, 6051
Polk Audio	6047
Proton	6035
Quasar	6001
RCA	6025, 6046
Sharp	6029, 6030, 6031, 6032
Sherwood	6011
Shure	6048
Sony	6020, 6042, 6044, 6049
Soundesign	6045
Teac	6019
Technic	6001
Technics	6001, 6040
Toshiba	6027
Victor	6024
Wards	6045
Yamaha	6007, 6037, 6038, 6043, 6052, 6053

Home Theater in a Box (HTIB)

	Audio	DVD
Apex	4049	2316
Audiovox	4053	2388
Bose	4000	2130, 2215
Cambridge Sound Works	4060	2395
Classic	4055	2391
Coby	4052	2387
Curtis	4056	2387
Denon	4012	2216
Emerson	4057	2392
GPX	4055	2390
Insignia	4059	2394
JBL	4001	2043
JVC	4002, 4013, 4014, 4028	2035, 2217, 2218, 2283
Koss	4003, 4015	2060, 2200
LG	4041	2303
Magnavox	4035	2293
Onkyo	4004, 4016, 4017	2024, 2219, 2220
Panasonic	4005, 4018, 4030, 4038, 4050, 4051	2104, 2221, 2300, 2384, 2385, 2386
Philips	4006, 4019, 4027, 4039, 4042	2036, 2222, 2282, 2304
Pioneer	4007, 4020, 4021, 4029	2016, 2223, 2224
RCA	4008, 4026	2042, 2281, 2161
Samsung	4033, 4036, 4047	2294, 2296, 2295, 2314
Sanyo	4058	2393
Sharp	4061	2396
Sherwood	4062	2397
Sony	4009, 4010, 4022, 4023, 4024, 4031, 4032, 4034, 4043, 4044, 4045, 4046, 4048	2113, 2108, 2225, 2226, 2278, 2288, 2296, 2305, 2306, 2307, 2315
Toshiba	4025, 4040	2227
Venturer	4011	2011
Yamaha	4054	2389
Zenith	4037	

Receiver/Tuner

ADC	5144
Aiwa	5000, 5001, 5002, 5004, 5005, 5006, 5034, 5143
Akai	5083
Audiotronic	5145
Audiovox	5152
Bang & Olufsen	5151
Bose	5007
Capetronic	5144
Carver	5000, 5143 ,5145
Denon	5008, 5035, 5036, 5037, 5038, 5039, 5040, 5041, 5042, 5043, 5044, 5045, 5046, 5047, 5048, 5049, 5050, 5051, 5052, 5053, 5054, 5114, 5124
Eclipse	5149
Gradiente	5153
Harman Kardon	5000, 5009, 5055, 5056, 5142, 5143
JBL	5009
JVC	5010, 5057, 5058, 5059, 5116
Kenwood	5011, 5012, 5013, 5060, 5061, 5062, 5063, 5064, 5065, 5066, 5067, 5068, 5123, 5127, 5128, 5132, 5148
Linn	5000, 5143
Magnavox	5000, 5143, 5144, 5145
Marantz	5000, 5069, 5143, 5145
Mitsubishi	5070, 5071, 5072
Onkyo	5018, 5073, 5074, 5075, 5076, 5077, 5078, 5079, 5080, 5081, 5082, 5084, 5085, 5086, 5087, 5130, 5131, 5140
Optimus	5144
Panasonic	5019, 5020, 5107, 5108, 5109, 5110, 5111, 5115, 5126
Philips	5000, 5112, 5138, 5143, 5145, 5154
Pioneer	5021, 5022, 5088, 5089, 5090, 5091, 5092, 5093, 5094, 5119, 5120, 5144, 5147
Polaroid	5141
Polk Audio	5143
RCA	5024, 5025, 5026, 5137, 5144
Rotel	5150
Samsung	5139
Sansui	5000, 5143
Sherwood	5027
Sony	5017, 5023, 5028, 5029, 5030, 5031, 5032, 5033, 5095, 5096, 5097, 5113, 5117, 5121, 5125, 5129, 5133, 5134, 5136, 5146
Technics	5016, 5019, 5020, 5098, 5099, 5100, 5101, 5115, 5122, 5126
Thorens	5145
Wards	5000, 5021, 5143
Yamaha	5003, 5014, 5015, 5021, 5102, 5103, 5104, 5105, 5106, 5118, 5135

VCR

ABS	3223
Admira	3001
Adventura	3021
Aiwa	3021
Akai	3003, 3055, 3058
American High	3016
Apex	3189
Audio Dynamics	3005, 3006
Bang & Olufsen	3222
Bell & Howell	3007
Broksonic	3081, 3082, 3202, 3213
Candle	3011, 3013, 3014

VCR, continued

Canon	3016
Carver	3036
CineVision	3242
Citizen	3011, 3013, 3014
Colortyme	3005
Curtis Mathes	3000, 3005, 3014, 3016, 3212
CyberPower	3223
Daewoo	3011, 3013, 3021, 3076, 3120, 3150
DBX	3005, 3006
Dell	3223
Dimensia	3000
Dynatech	3021
Electrohome	3023
Emerson	3003, 3011, 3016, 3021, 3023, 3038, 3083, 3202
Expressvu	3247
Fisher	3007, 3029, 3030
Fuji	3016, 3058
Funai	3002, 3021
Garrard	3021
Gateway	3223
GE	3000, 3016, 3059, 3090, 3201, 3203, 3212
Go Video	3066, 3073, 3109, 3110, 3188, 3193, 3221
GOI	3247
Goldstar	3005, 3014
Gradiente	3021
Harley Davidson	3021
Harman Kardon	3005
Headquarter	3007
Hewlett Packard	3223
Hitachi	3052, 3055, 3059, 3117, 3169
HNS	3243
HP	3223
HTS	3247
Hughes	3246, 3250
Humax	3246
Hush	3223
Insignia	3239
Instant Replay	3016
JC Penney	3005, 3006, 3007, 3016, 3030, 3036, 3052
JCL	3016
Jensen	3055
JVC	3005, 3006, 3007, 3014, 3055, 3060, 3067, 3118, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3151, 3170, 3171, 3194, 3205, 3228, 3229, 3230, 3231, 3234, 3235, 3236, 3237, 3247, 3248, 3250
Kenwood	3005, 3006, 3007, 3014, 3055, 3060
Kodak	3016
LG	3233, 3238
Linksys	3223
Lloyd's	3021
Magnavox	3016, 3036, 3037, 3051, 3061, 3128, 3152, 3153, 3154, 3181, 3183, 3190, 3206, 3211
Magnin	3201
Marantz	3005, 3006, 3007, 3014, 3016, 3036
Matsushita	3016
Media Center PC	3223
MEI	3016
Memorex	3001, 3004, 3007, 3016, 3021, 3051
MGA	3023, 3038, 3201
Mind	3223
Minolta	3052
Mitsubishi	3023, 3038, 3039, 3060, 3108, 3203
Montgomery Ward	3001
Motorola	3001, 3016
Multitech	3021
NEC	3005, 3006, 3007, 3014, 3055, 3060
Niveus Media	3223
Northgate	3223
Olympus	3016
Optimus	3001
Optonica	3047
Orion	3004, 3202, 3213
Panasonic	3016, 3053, 3062, 3063, 3077, 3078, 3079, 3086, 3087, 3107, 3129, 3130, 3131, 3132, 3133, 3134, 3145, 3146, 3155, 3156, 3157, 3158, 3159, 3172, 3191, 3197, 3207, 3212, 3253
Penney	3201, 3212
Pentax	3052, 3059
Pentex Research	3014
Philco	3016, 3036, 3037
Philips	3016, 3036, 3047, 3061, 3071, 3135, 3160, 3161, 3173, 3208, 3216, 3243, 3244, 3246, 3250, 3251
Philips Magnavox	3135
Pioneer	3006, 3060
Polaroid	3111
Portland	3013
Proscan	3000
Pulsar	3051
Quarter	3007
Quartz	3007
Quasar	3016, 3062, 3091, 3092, 3212
Radio Shack/ Realistic	3001, 3007, 3011, 3016, 3021, 3023, 3029, 3047
RCA	3000, 3003, 3016, 3040, 3041, 3042, 3052, 3059, 3062, 3068, 3075, 3093, 3094, 3106, 3136, 3162, 3174, 3175, 3199, 3201, 3203, 3206, 3212, 3243, 3249, 3250
ReplayTV	3252
Ricavision	3223
Ricoh	3064
Runco	3051
Samsung	3011, 3069, 3084, 3089, 3101, 3148, 3184, 3214, 3215, 3218, 3232, 3243
Sanky	3001, 3051
Sansui	3004, 3006, 3055, 3060, 3202, 3211, 3213
Sanyo	3007, 3070, 3201
Scott	3011, 3038
Sears	3007, 3016, 3029, 3030, 3052, 3211
Sharp	3001, 3013, 3023, 3047, 3080, 3100, 3137, 3163, 3164, 3176, 3177, 3200
Shintom	3048, 3058
Signature	3001
Singer	3016, 3064
Sony	3048, 3049, 3058, 3085, 3104, 3138, 3139, 3140, 3178, 3179, 3187, 3192, 3195, 3209, 3211, 3217, 3223, 3224, 3225, 3226, 3240, 3245
Stack 9	3223
STS	3016, 3052
Sylvania	3016, 3021, 3036, 3037, 3038, 3061, 3088, 3095, 3105, 3147
Symphonic	3002, 3021
Systemax	3223
Tandy	3007
Tatung	3055
Teac	3021, 3042, 3055
Technics	3016, 3053

VCR, continued

Teknika	3016, 3021, 3050
Thomas	3211
Toshiba	3011, 3029, 3030, 3038, 3096, 3098, 3099, 3102, 3103, 3141, 3142, 3149, 3165, 3166, 3167, 3168, 3180, 3182, 3185, 3210, 3219, 3220, 3223, 3227, 3241
Touch	3223
Vector Research	3005, 3006, 3011
Victor	3006
Video Concepts	3005, 3006, 3011
Viewsonic	3223
Voodoo	3223
Wards	3001, 3011, 3016, 3021, 3023, 3047, 3052
Westinghouse	3002
XR-1000	3016, 3021
Yamaha	3005, 3006, 3007, 3014, 3055
Zenith	3048, 3051, 3058, 3064, 3072, 3097, 3119, 3143, 3144, 3186, 3196, 3198, 3202, 3204, 3211, 3213
ZT Group	3223

Combination Device Codes

If you have a combination device, you may need to reassign the AUX key to operate one of the devices, for example, the VCR. The following tables provide some examples of combination devices. If your combination device is not listed, simply look for the codes for each separate device.

DVD/VCR Combo

	DVD	VCR
Apex	2229	3189
Broksonic	2072	3082
CineVision	2230	3242
Daewoo	2062	3076
Emerson	2073	3083
Go Video	2046, 2127, 2129, 2230, 2239, 2129	3066, 3110, 3109, 3188, 3193, 3221
Hitachi	2126, 2173	3117, 3169
Insignia	2369	3239
JVC	2047, 2097, 2166, 2232, 2166, 2359, 2360, 2361, 2362, 2364, 2365, 2366, 2367	3067, 3118, 3170, 3194, 3171, 3228, 3229, 3230, 3231, 3234, 3235, 3236, 3237
LG	2363, 2368	3233, 3238
Magnavox	2237	3190
Panasonic	2066, 2167, 2228	3078, 3172, 3191
Philips	2051, 2169	3071, 3173
Polaroid	2007	3111
RCA	2048, 2165, 2172	3068, 3174, 3175
Samsung	2049, 2074, 2085, 2233, 2290, 2311	3069, 3084, 3101, 3184, 3214, 3218, 3232
Sanyo	2050	3070
Sharp	2170, 2174	3176, 3177
Sony	2065, 2067, 2171, 2238, 2244, 2067, 2355, 2356, 2357	3104, 3085, 3179, 3187, 3192, 3178, 3224, 3225, 3226, 3240
Toshiba	2080, 2084, 2168, 2235, 2312, 2358	3103, 3102, 3180, 3185, 3219, 3227, 3241
Zenith	2052, 2128, 2234, 2236	3072, 3119, 3186, 3186

TV/DVD Combo

	TV	DVD
Akai	1427	2378
Apex	1163	2095
Axion	1459	2379
Bang & Olufsen	1453	2370
Broksonic	1114	2053
Coby	1460	2380
Cytron	1456	2374
DiamondVision	1461	2382
Emerson	1150, 1465, 1595	2202, 2213, 2260
Funai	1595	2213
Haier	1581	2506
Emerson	1150, 1465, 1595	2202, 2213, 2260
Hitachi	1226	2240
Ilo	1457	2375
Initial	1457	2381
JVC	1288	2206
LG	1255	2371
Magnavox	1457, 1516, 1595	2213, 2375, 2503
Mintek	1457	2381
Panasonic	1289	2207
Philips	1290, 1291, 1337	2208, 2209, 2243
Polaroid	1458, 1440	2377, 2409
RCA	1115, 1162, 1379	2063, 2099, 2289
Sansui	1122	2071
Sharp	1138	2292
Sylvania	1150, 1464	2092, 2408
Toshiba	1116, 1293, 1294, 1345	2054, 2210, 2231
Westinghouse	1454	2372

TV/VCR Combo

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